

MATERIAL SAFETY DATA SHEET

COMPANY

ADDRESS

[REDACTED]

[REDACTED]

TEL

[REDACTED]

FAX

[REDACTED]

I. MATERIAL IDENTIFICATION

MANUFACTURER: [REDACTED]	MATERIAL USAGE: SOLDERING
	TRADE NAME: 15/85 Sn/Pb SOLDERING WIRE
	CHEMICAL NAME: TIN/LEAD ALLOY
EMERGENCY: 886-2-22040646	WELLEY ALLOY CODE#: 15%
CHEMICAL FAMILY: Matel Alloy	FORMULA: Sn/Pb15/85
MOLECULAR WEIGHT: N/A	ISSUED DATE: 20/08/2010
	REVISED DATE: 20/08/2010

II. HAZARDOUS INGREDIENTS AND EXPOSURE

Material or Component:	CAS Number	% Weight	EXPOSURE LIMITS		
			Dust Fume (mg/m ³)	PEL(OSHA) 8-hr TWA (mg/m ³)	ACGIH STEL (mg/m ³)
Tin	7440-31-5	15	N/A	2	4
Lead	7439-92-1	85	N/A	0.15	N/A
Core		1.6	N/A	N/A	N/A

III. PHYSICAL DATA

PHYSICAL STATE (at normal cond.) Gas X Liquid X Solid V	APPERANCE AND ODER : Silver-grey metal, odorless,various shapes and sizes.	OTHERS : N/A
VAPOR DENSITY (Air=1) : N/A	SOLUBILITY IN WATER (%by weight) : N/A	PH : N/A
VAPOR PRESSURE (mmHg) at 20°C : N/A	%VOLATILE BY VOLUME (at 20°C) : N/A	DENSITY : N/A
SPECIFIC GRAVITY (H ₂ O=1) : (metal) 10.4	MELTING POINT (°C) 258-290°C	BOILING POINT (°C) : N/A

IV. FIRE AND EXPLOSION DATA

INFLAMMABILITY : Yes X No V	If so,in which conditions : N/A	Flassh Point (°C) : Open : N/A Close : N/A
FIREFIGHTING PROCEDURES : Use NIOSH/MSHA self-contained breathing apparatus and full protective clothing if involved in fire.		
EXTINGUISHING AGENTS : Use dar chemical, carbon dioxide, water spray or foam.		
UNUSUAL FIRE AND EXPLOSION HAZARDS : N/A		

V. REACTIVITY DATA

STABILITY : Yse V No X	If no,in which conditions?
INCOMPATIBILITY : Yse V No X	If no ,in which ones? (Material to avoid) Contact with oxidizers acids or hydrogen peroxide may cause a reaction.
HAZARDOUS DECOMPOSITION PRODUCTS : Under reducing conditions or in the Presence of nascent hydrogen, highly toxic stibine gas may be evolved. Over melting point Fumes may be evolved.	
HAZARDOUS POLYMRIZATION : May occur? Yes X No V	If so, in which conditions? N/A

VI. FIRST AID PROCEDURES

INHALATION : Remove from exposure ; place individual under care of physician.
SKIN/EYE : No visual appearance-wash skin carefully with soap and water.May cause irritaitaon-rinse thoroughly with water.Ifirritation persists,seek medical attention.
INGESTION : Induce vomiting in conscious individual and call a physician.Give two to three glasses of water.

VII. PHYSIOLOGICAL EFFECTS

ROUTES OF EXPOSURE : Inhalation : Short Term V Long Term V Skin : Contact <input type="checkbox"/> Absorption <input type="checkbox"/> Eye V Ingestion V
INHALATION : Inhalation of fume generated from this product may cause irritation to the respiratory system,Inhalation and/or ingestion of fume may cause headache,nausea muscular pain and possible liver damage. Workers should be aware of potential generation of stibine gas if in contact with acid.
SKIN/EYE : Possible mechanical irritation of skin.
INGESTION : Prolonged skin contact with fume or dust may cause skin dermatitis.Over exposure by inhalation and / or ingestion may cause fatigue, anemia, possible central nervous system damage, nasal inflammation and possible kidney disfunction.
POSSIBLE EFFECTS : Carcinogenic <input type="checkbox"/> Reproduction <input type="checkbox"/> Terayogenic <input type="checkbox"/> Mutagenic <input type="checkbox"/>

VIII. PRECAUTIONS

PROTECTIVE CLOTHING AND EQUIPMENT
RESPIRATORY PROTECTION : NIOSH/MSHA respirator for toxic dust,if over limit.
EYES AND FACE : Safety glasses for operation generating flying particles.
HANDS,ARM & BODY : Gloves and goggles
OTHER EQUIPMENT : Approved mask
ENGINEERING CONTROLS (e.g. : ventilation,closed process) : Local exhaust ventilation is required for melting,grinding,screening,soldering or other operations where excessive exposure may occur.
SPILL AND PROCEDURES : A clean-up procedure which minimizes exposure is required

vacuuming is preferred. Place all material in closed containers. Do not use compressed air for cleaning. Use approved respiratory protection if possibility of dust/fume exposure exists.

HANDLING AND STORING : Use of approved respirators for application where adequate ventilation cannot be provided.

IX. DISPOSAL AND ENVIRONMENT

HAZARDOUS : Yes <input type="checkbox"/> No <input type="checkbox"/>	If so, reportable quantity : N/A
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WASTE DISPOSAL METHODS : Material should be returned to process or salvage.
Dispose of only if in accordance with applicable regulations.

RCRA STATUS OF UNUSED MATERIAL : N/A

X. REFERENCE

PERMISSIBLE CONCENTRATION, HAZARD INFORMATION, GENERAL, ETC. :
OSHA regulation 29 CFR 1910.1000 and 1910.1025 documentation of the threshold limit value 4th edition NFPA fire protection guide on hazardous material registry of toxic effects on chemical substances (NIOSH) 1980.
Regulation respecting the quality of the work environment

XI. ADDITIONAL INFORMATION

Avoid eating, smoking, or drinking in work areas. Good personal hygiene is essential.

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